A laminate useful as a membrane-electrode assembly for fuel cells, production process therefor and a fuel cell provided with the laminate

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Abstract of EP1496561

A laminate consisting of an ion exchange membrane layer comprising a porous film reinforcement and a crosslinked ion exchange resin and a conductive layer formed on at least one side of the ion exchange membrane layer and comprising conductive inorganic particles and a crosslinked ion exchange resin, wherein the ion exchange membrane layer and the conductive layer are integrated with each other by the above ion exchange resins constituting these layers. <??>This laminate is excellent in dimensional stability, heat resistance and methanol impermeability, which makes it suitable for use in electrochemical devices such as a direct methanol type fuel cell as a membrane-electrode assembly, has high bonding properties between the electrode layer and the ion exchange membrane layer of the membrane-electrode assembly, and provides a fuel cell whose output is not reduced by long-term use.

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